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Circumferential Acute Localized Exanthematous Pustulosis Whitney L. Pollard, DO, Ngoc Nguyen, BS, Melissa Mauskar, MD

San Antonio Uniformed Services Health Education Consortium, Joint Base San Antonio, TX University of Texas Southwestern, Dallas, TX

Introduction

erythematous background, most commonly affecting the face, neck numerous sterile, coalescing, non-follicular pustules on (AGEP), first described by Prange et al. in 2005.1 It is clinically and and chest distribution on the body. It is characterized by an acute eruption of histologically consistent with AGEP with the exception of its limited localized variant of acute generalized exanthematous pustulosis Acute localized exanthematous pustulosis (ALEP) is a rare

been previously reported. ALEP favored to be secondary to an infectious trigger which has not hypertensives, antifungals, neuroleptics, analgesics, and NSAIDS. drugs, but others that have been described include antiinduced in 90% of cases, but bacterial and viral infections are also possible culprits.^{2, 3} Antibiotics are the most commonly implicated Systemic symptoms are less common in ALEP. AGEP is drugtrunk and limbs within a few hours. Fever, leukocytosis, elevated C-All reports of ALEP have been drug-induced. We present a case of reactive protein, and neutrophilia may accompany the eruption, ² inguinal, and inframammary regions and rapidly spreads to the Contrastingly, AGEP starts in body folds including the axillary

Case Presentation

mixed-cell infiltrate consisting of lymphocytes, neutrophils, a long period of time. A 4 mm punch biopsy was performed which triad presented to the emergency department with a pruritic and subcorneal pustule in addition to underlying superficial perivascular revealed epidermal hyperplasia with neutrophilic spongiosis and a symptomatology. She had been on Claritin, Advair, and Albuterol for hair products, medications, or known contacts with similar also involved with superficial erosions. She denied a history of new the hairline (Figures 1,2). The helix and post-auricular sulcus were pustules on a background of erythema, circumferentially encircling period. Physical examination revealed sheets of non-follicular ears. She also endorsed a non-productive cough over the same and subsequently spread to further involve forehead, neck, and painful eruption for 2 weeks which started around entirety of hairline A 16 year-old African American female with a history of atopic

Clinical Presentation



Figure 2

Figure 1

Figure 3 Histology Figure 4

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Soudo A, Velley S, Bancha J, Wallbur L, Roujea J. Acute generalized exarbenulous products (ACEP)- A direct reaction patter. J Cutan Pathol 2001;28:113-119.

Literature Review & Discussion

edema.2,5 necrotic keratinocytes, leukocytoclastic vasculitis, and papillary infiltrates consisting of neutrophils and some eosinophils, focal cells in the development of the condition as these T cells produce elucidated the important role of drug-specific CD4+ and CD8+ T recruit and activate neutrophils. Patch tests and in vitro tests have production of high levels of cytokines like IL-3 and CXCL8, which understood, is believed to be T-cell mediated through the for spongiform subcorneal or intraeptielial pustules, perivascular significantly more CXCL8 in affected patients.⁴ Histology is notable The pathogenesis of AGEP/ALEP, though not completely

The differential diagnosis includes:

- 1. Pustular psoriasis of von Zumbusch: This entity is often very AGEP/ALEP. It is typically triggered by withdrawal of systemic hospitalization is frequently required. steroids or potent topical steroids and infections, and difficult to clinically and histologically differentiate from
- 2 Sneddon-Wilkinson disease: The pustules seen in Sneddonand adolescents. presents in middle-aged women, and rarely occurs in children typically sparing the face. The condition most commonly Wilkinson are larger and described as half —and-half vesicles
- ω. Pustular contact dermatitis: The lack of recent contact with pustular contact dermatitis. possible allergens or irritants also refutes a diagnosis of

that could explain the eruption. With the history of upper respiratory all of them are drug-related.8 Besides the chronic use of Claritin, with topical steroid use in this case.9 can be expected to resolve in less than 15 days, which occurred causative drug. The disease is typically self-limited, and the rash steroids for pruritus and antipyretics if it is not a suspected any causative agents and symptomatic relief, including topical case of non-drug-related ALEP. Treatment includes discontinuing as a cause of AGEP,2 to our knowledge, this is the first reported was a viral infection. Though viral infections have been recognized symptoms accompanying the rash, the likely etiology in this case Advair, and Albuterol, this patient did not start any new medications There are only a number of case reports describing ALEP, and

scattered eosinophils. Bacterial culture was negative.